

# HYBRID MATERIAL BODY MOUNT FOR AUTOMOTIVE VEHICLES

## Abstract

A hybrid body mount assembly is provided to mount automotive parts to a vehicle chassis. The body mount assembly is fabricated in a two-piece configuration with disparate elastomeric materials used for the upper and lower members. The hybrid material configuration both enhances noise transmission reduction and minimizes vehicle vibration. The upper body mount member is formed from micro cellular urethane to minimize noise transmission through the body mount assembly, while the lower mount member is fabricated from butyl rubber to minimize the transmission of vehicle vibrations. The hybrid material assembly achieves a 50% increase in damping without detrimentally affecting the transmission of noise.